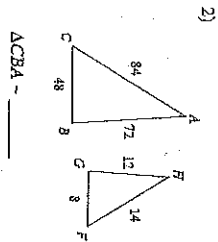
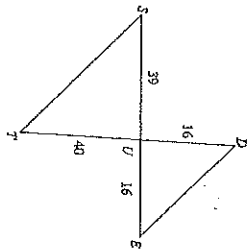


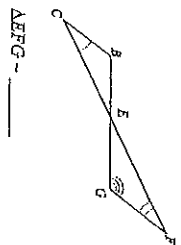
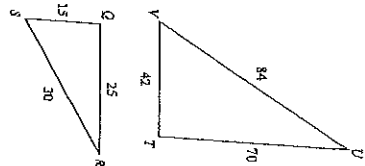
Similar Triangles

State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

Name _____ Date _____ Period _____



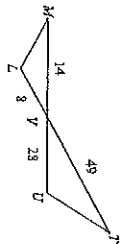
$\triangle CBA \sim \triangle \underline{\hspace{1cm}}$



$\triangle BEC \sim \triangle \underline{\hspace{1cm}}$

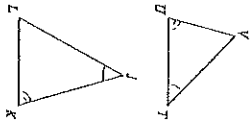
$\triangle UTS \sim \triangle \underline{\hspace{1cm}}$

3)



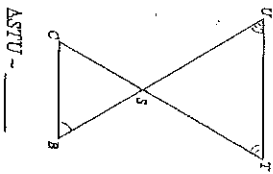
$\triangle UUT \sim \triangle \underline{\hspace{1cm}}$

4)



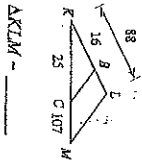
$\triangle VKL \sim \triangle \underline{\hspace{1cm}}$

5)



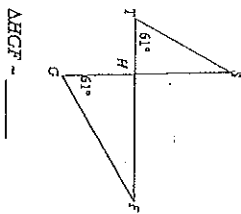
$\triangle STU \sim \triangle \underline{\hspace{1cm}}$

6)



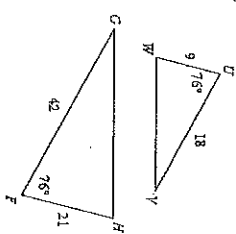
$\triangle KLM \sim \triangle \underline{\hspace{1cm}}$

9)



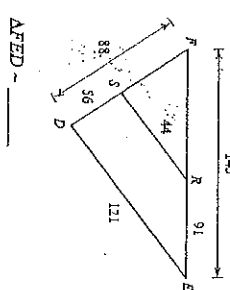
$\triangle HGF \sim \triangle \underline{\hspace{1cm}}$

10)



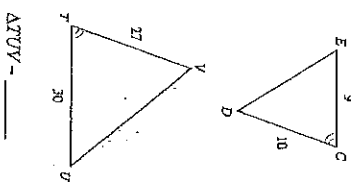
$\triangle FGH \sim \triangle \underline{\hspace{1cm}}$

11)



$\triangle FED \sim \triangle \underline{\hspace{1cm}}$

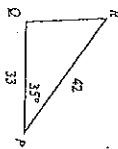
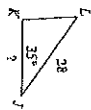
12)



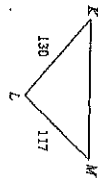
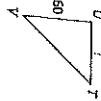
$\triangle TVV \sim \triangle \underline{\hspace{1cm}}$

Find the missing length. The triangles in each pair are similar.

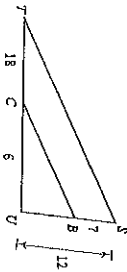
13)



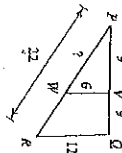
14)



15)

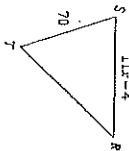


16)

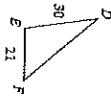
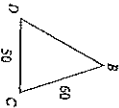
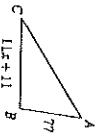


Solve for x. The triangles in each pair are similar.

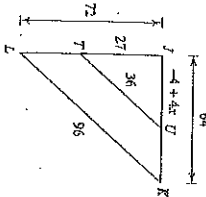
17)



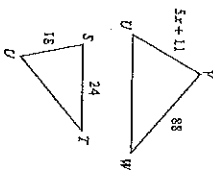
18)



19)



20)



Name _____

Date _____ Period _____

Kuta Software - Infinite Geometry
Simplifying Square Roots
Simplify.

1) $\sqrt{96}$

2) $2\sqrt{5} + 3\sqrt{5}$

3) $\sqrt{98}$

4) $\sqrt{18}$

5) $\sqrt{72}$

6) $\sqrt{144}$

7) $\sqrt{45}$

8) $\sqrt{175}$

9) $\sqrt{343}$

10) $\sqrt{12}$

11) $(3\sqrt{7})^2$

12) $\sqrt{11} + 7\sqrt{11}$

13) $2\sqrt{5} \cdot 7\sqrt{8}$

14) $5\sqrt{45}$

15) $5\sqrt{180}$

16) $12\sqrt{5} \cdot \sqrt{4}$

17) $2\sqrt{36}$

18) $9\sqrt{125}$

19) $8\sqrt{27}$

20) $\sqrt{18} - \sqrt{2}$

21) $3\sqrt{900}$

22) $2\sqrt{12} + 3\sqrt{27}$

23) $10\sqrt{49}$

24) $2\sqrt{200}$